ELSEVIER

Journal of Electrostatics 33 (1994) 425–426

Journal of
ELECTROSTATICS

Contents Volume 33

Vol. 33, No. 1

Investigation on static electrification characteristics of transformer oil
P.K. Poovamma, R. Jagadish and K. Dwarakanath 1
Neutralization of static electricity by soft X-rays and vacuum UV radiation
H. Inaba, T. Ohmi, T. Yoshida and T. Okada 15
Numerical analysis of electric field in a closed space injected with charged fluid
K. Yamane, K. Yoshida and I. Aya 43
Equilibrium shapes and bifurcation of captive dielectric drops subjected to electric fields
A. Ramos and A. Castellanos 61
Characterization of thunderstorm induced Maxwell current densities in the middle atmosphere
M.E. Baginski and G.W. Jarriel Jr 87
Macroscopic model of interaction between particles in an electrorheological fluid
J.-N. Foulc, P. Atten and N. Félici 103
Displacement currents by propagating charge packets in capacitor structures.
Part II: Analysis of the dispersive case
N.R. Mirchina and A. Peled 113
Effect of ohmic conduction on open circuit-heated polyethyleneterephthalate electrets
X. Huang 125
Calendar 131

Vol. 33, No. 2

Nearest-neighbor approximation for the dipole moment of conducting-particle chains
R.J. Meyer 133
Electrostatic phenomena in polyimide Langmuir–Blodgett films
E. Itoh, A. Fukuda and M. Iwamoto 147
Design of asynchronous dielectric micromotors
R. Hagedorn, G. Fuhr, T. Müller, T. Schnelle, U. Schnakenberg and B. Wagner 159
Multipolar dielectrophoretic force calculation
M. Washizu and T.B. Jones 187
Equilibria and dynamics of DEP-levitated particles: multipolar theory
T.B. Jones and M. Washizu 199
Numerische Feldberechnung in Elecktrofiltern im Hinblick auf elektrisch ähnliche Betriebszustände
J. Miller, C. Riehle, A.J. Schwab and F. Löffler 213
Low frequency dielectrophoresis in clay–water–electrolyte systems
J.Q. Shang, I.I. Inculet and K.Y. Lo 229

Announcements 245

Calendar 247

Vol. 33, No. 3

Theme issue: 1993 EOS/ESD Symposium

ESD sensitivity and VLSI technology trends: thermal breakdown and dielectric breakdown
D.L. Lin 251
Studies of EOS susceptibility in 0.6 μm nMOS ESD I/O protection structures
C.H. Díaz, C. Duvvury and S.-M. Kang 273
The identification and analysis of latent ESD damage on CMOS input gates
J. Colvin 291
Suppression and origin of soft ESD failures in a submicron CMOS process
F. Kuper, J.M. Luchies and J. Bruines 313
Scaling, optimization and design considerations of electrostatic discharge protection circuits in CMOS technology
S.H. Voldman and V.P. Gross 327
Designing on-chip power supply coupling diodes for ESD protection and noise immunity
S. Dabral, R. Aslett and T. Maloney 357

Regular papers

On capacitance corrections for unguarded disc electrodes
K.Y. Kung, H.J. Wintle, A. Blaszczyk and P.L. Levin 371
Delayed radiation induced conductivity of a thin uniformly charged insulator foil
X. Xishun, H. Xiaoqin and G. Xiaosheng 379
Interactive dipole model for two-sphere system
R.D. Stoy 385
An electrically augmented filter made from conducting and dielectric fibres
R.C. Brown, D. Wake and P.A. Smith 393
Electronic bubble-like conduction in *n*-hexane
S. Ishii, N. Tsuchida, A. Ohashi, Y. Mizuno, M. Nagao and M. Kosaki 413

Calendar 421
Author Index Volume 33 423
Contents Volume 33 425
Subject Index Volume 33 427
Panel of Referees 428